Menorrhoea Menace Prevention and Whippersnapper Hostage During Persecution

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ABSTRACT: Women security is need of the hour now a days. In India, there are many cases of girls harassment and molestation. Safety of girls matters let be whether reception , outdoor or it's their work place. The literature surveyed shows that there are many mobile applications that are used for ladies safety purpose. One recent research study shows that there's a wearable belt which is sticked to the belt that gets activated when the person taps on the touch sensor just in case of emergency. We specialise in developing a prototype that's a sensible belt which gets activated by tapping on the sensor. Once the device is activated it starts sending the GPS location to the ICE contacts and police control rooms. there's a peltier effect is employed to automatic cooling and heating purpose of the body when over cooling of human's body the temperature senor was to take care of the space temperature. In mensuration period the women's are soo tired and pain of the abdomen. it's used for pain relief of each women. When emergency is occur the touch sensor will get activated and sends the present location and also send the tracking location of the victim. a sensible application are going to be developed on the android platform which is connected with the device via GPS/GSM. The GSM send the message and calls within the duration of each 30secs in alternatively.

KEYWORDS: GPS location, GSM module, Touch sensor, Peltier effect, MOSFET, Temperature sensor, pin microcontroller.

I.INTRODUCTION

Safety is that the favorite power for everybody in today's world. Technology is that the best thanks to achieve it. Considering of this generation mainly the women's face more problems to secure of our own. the most problem of is that ladies harassment. Now a days the women's are willing to going the roles for fulfill our life satisfaction. For current situation the women's and children's aren't ready to travel alone the road and the other private, public areas. That's the rationale to develop this project which will act as a rescue device and protect at the time of danger. The motivation behind this project is an effort to specialise in a security system that's designed merely to serve the aim of providing security to women. the most objective of the project is to secure the one that are in hostage condition. If the person wearing the belt, during harassment stage the message alerts and notifications are skilled predetermined numbers, including the alerts signals fast transferred to the nearer placed police headquarters by using the GPS location. Another merit of this the system are going to be maintain the blood heat adequate to the space temperature level. the aim is that maintaining the temperature for females to scale back stomach pain during the amount of menstruation. During travelling time, just in case they're in menstruation stage the belt are going to be very useful for cooling purposes. Function of touch sensor is becoming the project like advanced system. In existing project having the specification just like the start line of physical force given from the one that are in peril stage. It needs some frequent time to function of the safety system. But our project solve the matter by usage of touch sensor and it's an fully automatic system. No physical force are needed. The time taken is when comparing to the older projects is just too less.So that they never feel helpless while facing such social challenges. a complicated system are often built which will detect the situation and health condition of person who will enable us to require action accordingly supported electronic gadgets like GPS receiver, GSM, pulse sensor, flex sensor, MEMS accelerometer, blood heat sensor. we will make use of number of sensors to exactly detect the important time situation of the ladies in critical abusive situations. The heartbeat of an individual in such situations is generally higher which helps make decisions to detect the abnormal motion of the ladies while she is victimized.

II.EXISTING SYSTEM

In this Existing system that used may be a smart device which will be worn by a person on their wrists. The band is usually active; the victim must tap on the screen twice when she feels the necessity of it or she feels someone is abusing her. After tapping on the screen, the device will start sending only the present latitudinal and longitudinal co-ordinates to the ICE contacts and therefore the police room . The device consists of a piezo buzzer that emits beep sound after 1 minute of actual activation of the device. The range of the buzzer covers up to 50 meters of radius.When the piezo emit the sound the suspect are alert. If the suspect tries to get rid of the band and throw it, the force sensors will start working and buzzer will start ringing and therefore the location at that specific time are going to be sent. On the highest of the band there are two nodes which can emit current as soon because it comes in touch with any surface after the device is activated. the present is generated with the assistance of leakage current.
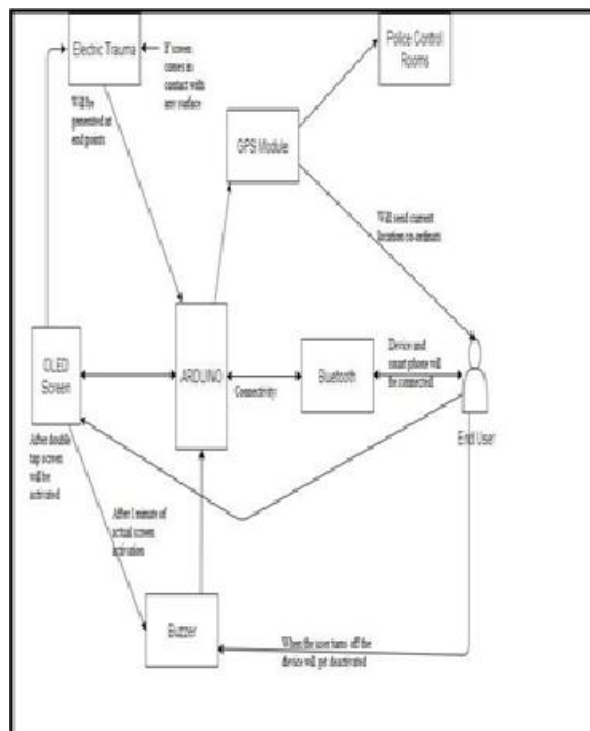
Fig. 1. Block Diagram of Existing System

The device and therefore the smart phone are connected using Bluetooth, which is liable for the general data sharing and connectivity. The guts of the device is Arduino which controls the whole device prototype. OLED screen is employed because the UI for the device. A captative touch is employed for completing the touch functionality of the screen. It's attached on the OLED screen.

III.PROPOSED SYSTEM

We specialise in developing a prototype that's a wearable belt which will be weared by women and child. it's employed by women during menorrhea period and also it's useful for security purpose for both women and child. In today's world women are less secure and have many issues regarding their security purpose.The misbehavior against children and ladies are increasing rapidly. they're under the threat of easily being kidnapped. In modern India, women still face social challenges and are often victims of abuse, violent crimes and harassment. At an equivalent time children's security has always been a priority problem whose solution must constantly be improved. Since the prediction of such incident isn't possible hence to attenuate the likelihood of physical violence (robbery, sexual abuse etc.) by keeping all the assistance tools able to safely shake violent situation. This reduces risk and brings assistance when needed. This project focuses on a security system that's designed solely to serve the aim of providing security and safety to women and youngsters in order that they never feel helpless while facing such social challenges.Although there are many existing systems for security purpose need of advanced smart security system is increased. so as to beat such problems

smart security system for ladies is implemented. Our project aims to make a wearable belt to prevention of menorrhoea menace and whippersnapper hostage during persecution. If an emergency occur, the GSM send alert message and call to predefined numbers with current location.
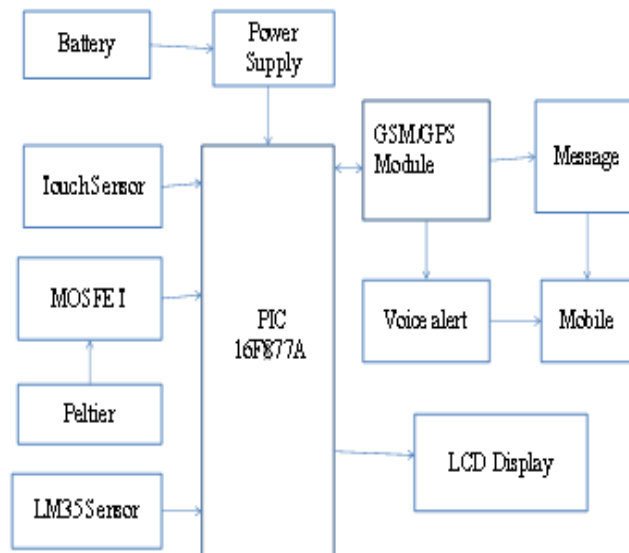

Fig. 2.Block Diagram of Proposed System

Here we propose a system to beat a number of the issues are faced by women and child. It act as a pain reliever with low cost. It maintains temperature during Menorrhoea. During harassment to save lots of whippersnapper by using their location .The female's are physically obtaining a menstruation stage at certain period of days. At that point they suffering more stomach pain for increasing our blood heat .therefore the peltier effect occurs to work out the temperature difference from the physical body and maintains the space temperature.

PIC Controller

Fig. 3. PIC 16F877A

PIC and PIC micro are registered trademarks of Microchip Technology. it's generally thought that PIC stands for Peripheral Interface Controller, although General Instruments' original acronym for the initial PIC1640 and PIC1650 devices was "Programmable Interface Controller". The acronym was quickly replaced with "Programmable Intelligent Computer".

GPS Module

Fig.4. GPSModule

Global positioning system (GPS) may be a navigation and precise positioning tool, which tracks the situation within the sort of longitude and latitude supported Earth by calculating the time difference for signals from various satellites to succeed in the receiver. This GPS system is out there as a module which will be embedded in any mobility devices, so this technique are often helpful for ladies to trace the situation information once they feel unsafe or in peril situations

GSM Module

Fig. 5. GSM Module

Global System for Mobile communication (GSM) SIM card is inserted inside the mobile device to send and receive the messages using GPRS. The GSM SIM card number is registered with the system. GSM is employed to send data from control unit to base unit .We can use GSM 800A which operates at frequency 900MHz.
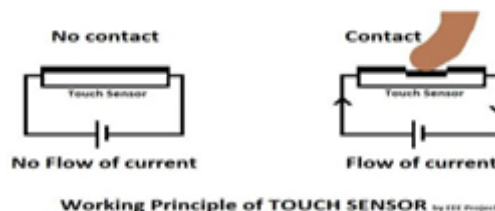
LCD Display

Fig. 6. LCD Display

LCD display is connected to the output of controller in bus unit. Now the system waits for the blind to offer the destination as voice input. All the processes are displayed on the LCD.
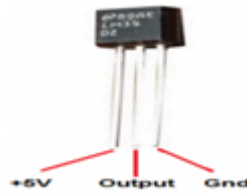
Touch Sensor

Fig.7. Touch Sensor

A touch sensor may be a sort of equipment that captures and records physical touch or embrace on a tool and/or object. It enables a tool or object to detect touch, typically by a person's user or operator. slightly sensor can also be called slightly detector.

LM35 Temperature Sensor

Fig.8. LM35 Temperature sensor

In general, a temperature sensor may be a device which is meant specifically to live the hotness or coldness of an object.LM35 may be a precision IC temperature sensor with its output proportional to the temperature (in °C).With LM35,the temperature are often measured more accurately than with a thermistor. It also possess low self-heating and doesn't cause quite 0.1 °C temperature rise in still air. The operating temperature range is from -55°C to 150°C.

Peltier

Thermoelectric cooling uses the Peltier effect to make a heat flux at the junction of two differing types of materials. A Peltier cooler, heater, or thermoelectric apparatus may be a solid-state active apparatus which transfers heat from one side of the device to the opposite , with consumption of electricity , counting on the direction of the present .
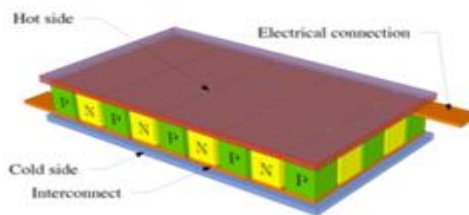
Fig.9. Peltier

MOSFET
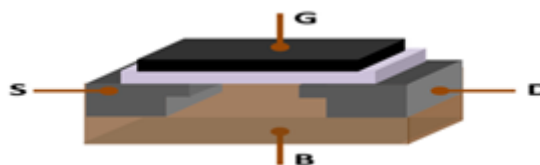
Fig.10. MOSFET

The metal–oxide–semiconductor FET (MOSFET, MOS-FET, or MOS FET), also referred to as the metal–oxide–silicon transistor (MOS transistor, or MOS),[1] may be a sort of insulated-gate FET (IGFET) that's fabricated by the controlled oxidation of a semiconductor, typically silicon. The voltage of the covered gate determines the electrical conductivity of the device; this ability to vary conductivity with the quantity of applied voltage are often used for amplifying or switching electronic signals.

IV.CONCLUSION

The proposed design will affect the applications for ladies security and comes out with an innovative idea for security and protection for ladies and more research is feasible with introducing smart technology where people and objects form a network. this may help to unravel them technologically with compact equipment and concepts . Using screaming alarms and also alerting the emergency contacts by sending the messages with the situation is useful for women's security. this technique can overcome the fear that scares every woman within the country about her safety and security.

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BIOGRAPHY

R.GUNASEKARAN was completed his under graduation(B.E.,-EEE) in the year of 2003 at Kongu Engineering College,Perundurai and post graduated M.E (Power Electronics & Drives) atKSR College of Technology, Tiruchengode in the year of 2010. He isdoing Ph.D.,(part-time) in Anna university, Chennai at 2015 onwards.He is currently working as Assistant professor in the department ofEEE at Excel College of Engineering and Technology, komarapalayamfrom June 2015. His teaching experience is more than 11 years andalso published more than 03 reputed journals. He has membership inIndian society for Technical Education (ISTE). He was also published03 Engg. College books at Charulatha publication.His research interestinvolves in Power Electronics, Renewable Energy.